

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
7 June 2001 (07.06.2001)

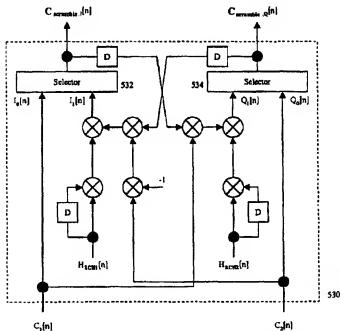
PCT

(10) International Publication Number
WO 01/41318 A2

- (51) International Patent Classification: H04B
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- (21) International Application Number: PCT/KR00/01385
(22) International Filing Date: 30 November 2000 (30.11.2000)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data: 1999/54963 4 December 1999 (04.12.1999) KR
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(81) Designated States (national): AE, AG, AI, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

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(54) Title: TRANSMISSION AND RECEIVING USING SPREADING MODULATION FOR SPREAD SPECTRUM COMMUNICATIONS AND THEREOF APPARATUS



(57) Abstract: The present invention is related to a method and an apparatus for the orthogonal complex-domain spreading modulation in CDMA spread spectrum communication system when there are channels with statistically higher transmitting power. In CDMA spread spectrum communication systems with a transmitter and a receiver, the transmitter according to the invention has several channels with different information. Two channels with higher power than the others, which are spread in the conventional scheme, are spread with the orthogonal codes using a complex-domain multiplier. The spread signals are added. Then the signal are scrambled using a complex-domain multiplier with secondary scrambling sequences generated by a special scrambling code generator with primary scrambling sequences as inputs. The receiver does reverse operation of the transmitter.



(84) **Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— Without international search report and to be republished upon receipt of that report.

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